Sertifikaat

REPUBLIEK VAN SUID-AFRIKA

IB/2004/050279

REPUBLIC OF SOUTH AFRICA

PATENT KANTOOR DEPARTEMENT VAN HANDEL **EN NYWERHEID**

PATENT OFFICE DEPARTMENT OF TRADE AND INDUSTRY

Hiermee word gesertifiseer dat This is to certify that

the documents annexed hereto are true copies of:

Application forms P.1 and P.2, provisional specification of South African Patent Application No. 2003/2148 as originally filed in the Republic of South Africa on 19 March 2003 in the name of PHICON INVESTMENT HOLDINGS (PTY) LTD for an invention entitled: "ASSEMBLING SYSTEM".

Geteken te

PRETORIA

Signed at

in die Republiek van Suid-Afrika, hierdie

in the Republic of South Africa, this

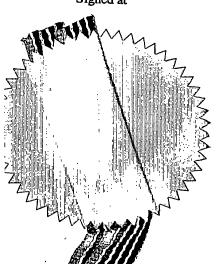
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FORM P2 (Lodge in Duplicate)

REPUBLIC OF SOUTH AFRICA PATENTS ACT, 1978						
	REGISTER OF PATENT					
Official Application No.:	Lodging date: Provisional	Acceptance	ce date:			
21 7 4003/2148	22 2003 -03- 1 9	47	·			
International Classification:	Lodging date: Complete	Grant dat	e:			
51	22		·			
Full name(s) of applicant(s)/Patentee(s):						
71 Phicon Investment Holdings (P	ty) Ltd	•				
Applicants substituted .		Date	e registered			
71	•					
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Assignee(s):		Dat	e registered			
71						
Full name(s) of inventor(s)						
72 Dimitri PHILIPPOU			,			
	•		• ,			
	•					
Priority claimed 33 Co	untry 31 Number	32	Date			
Title of invention						
54 ASSEMBLING SYSTEM						
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Patent of addition No. 74	D	ate of any change				
Fresh application based on	. D	ate of any change				

REPUBLIC OF SOUTH AFRICA PATENTS ACT, 1978

PATENT APPLICATION AND ACKNOWLEDGEMENT

[Section 30(1) - Regulation 22]

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	e(s) and address(es) of applicant(s):	DrG Ref.: 610814
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4 Title of in		
	ivenuon: LNG SYSTEM	
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The applic	ant claims priority as set out on the accompanying form	P2. The earliest priority claimed is:
This applic	ation is for a patent of addition to Patent Application N	lo. 21 01
This applic	ation is a fresh application (section 37) based on Applic	ation No. 21 01
	CATION IS ACCOMPANIED BY THE FOLLOW	
▼ 1. P6	Description 1 to 1	
P7	Complete specification Pages: Pages:	2 copies
 2 .	Drawings Sheets:	1,-55,-55
3. P8	Publication particulars and abstract in duplicate.	
 4.	Drawing for abstract	
5.	An assignment of invention	
6.	Certified priority document(s)	
7.	C	
╡ ′.	Copy of Form P2 and SA Patent Application No	21 01
→ 0. 9.	Translation of the priority document(s)	
10. P3	An assignment of priority rights	74 ADDRESS FOR SERVICE:
11. P4	Declaration and power of attorney on form P3	DR GERNTHOLTZ INC PATENT AND TRADE MARK ATTORNEYS
11. P4	Request for ante-dating on form P4	P O Box 8 Cape Town 8000 South Afric
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REPUBLIC OF SOUTH AFRICA PATENTS ACT, 1978 PROVISIONAL SPECIFICATION

[Section 30(1) - Regulation 27]

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21	01 Official Application No.: 003/2148	DrG Ref.: 610814
22	Lodging date: 2003 -03- 19	-
71	Full name(s) of applicant(s):	
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TITLE OF INVENTION

Assembling system.

FIELD OF INVENTION

5 The present invention relates to assembling systems.

More particularly, the present invention relates to assembling systems for assembling molecules.

BACKGROUND TO INVENTION

Nanotechnology is defined as the engineering of matter at a scale approaching that of individual atoms, i.e. the branch of technology that deals with dimensions and tolerances of less than 100 nanometres, espescially the manipulation of individual atoms and molecules. Developments in the field of nanotechnology enable novel practical applications thereof.

15 It is an object of the invention to suggest a novel assembling system.

SUMMARY OF INVENTION

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According to the invention, an assembling system includes

- (a) transmission means for transmitting signals;
- (b) input means for providing signals to be transmitted to the transmission means; and
 - (c) molecular and/or sub-atomic and/or impulses of energy assembling means adapted to receive the signals from the

transmission means and capable of molecular and/or subatomic manufacturing of an object defined by the signals.

Also, according to the invention, a method for manufacturing an object, includes the steps

(a) of providing signals to be transmitted to transmission means;

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- (b) of transmitting the signals transmitted to the transmission means to molecular and/or sub-atomic and/or impulses of energy assembling means; and
- (c) of molecular and/or sub-atomic and/or impulses of energy
 manufacturing an object defined by the signals received by the
 molecular and/or sub-atomic and/or impulses of energy
 assembling means from the transmission means.

Yet further according to the invention, an assembling system includes

- (a) transmission means for transmitting sub-atomic and/or atomic particles and/or impulses of energy;
- (b) input means for providing the sub-atomic and/or atomic particles and/or impulses of energy to be transmitted to the transmission means; and
- (c) molecular and/or sub-atomic and/or impulses of energy
 assembling means adapted to receive the sub-atomic and/or
 atomic particles and/or impulses of energy from the
 transmission means and capable of molecular and/or subatomic and/or impulses of energy manufacturing of an object
 defined by the sub-atomic and/or atomic particles and/or
 impulses of energy.

Also, according to the invention, a method for manufacturing an object, includes the steps

- (a) of providing sub-atomic and/or atomic particles and/or impulses of energy to be transmitted to transmission means;
- (b) of transmitting the sub-atomic and/or atomic particles and/or impulses of energy transmitted to the transmission means to molecular and/or sub-atomic and/or impulses of energy assembling means; and
- of manufacturing an object defined by the sub-atomic and/or atomic particles and/or impulses of energy received by the molecular and/or sub-atomic and/or impulses of energy assembling means from the transmission means.

The input means may include molecular or sub-atomic and/or impulses of energy disassembling means adapted to take apart structures, and recording structural information at each step.

The molecular and/or sub-atomic and/or impulses of energy disassembling means may be automated.

The molecular and/or sub-atomic and/or impulses of energy assembling means may be automated.

20 The disassembling means may utilise nanotechnology.

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The molecular and/or sub-atomic and/or impulses of energy assembling means may utilise nanotechnology.

The transmission means may be adapted to transport molecules and/or atoms and/or sub-atomic particles and/or impulses of energy associated with the signals.

The object manufactured by the molecular and/or sub-atomic manufacturing means may be a replica or an original of a structure disassembled by the molecular and/or sub-atomic and/or impulses of energy disassembling means.

5 The object manufactured may be a replica or an original of a structure disassembled by the disassembling means.

The original may be reassembled.

The method may be repeated as required.

At least some of the signals may transmit data.

10 A time delay from transmission of signals by the transmission means and/or receipt by the molecular and/or sub-atomic and/or impulses of energy assembling means until the object is manufactured may be included.

A time delay from provision of signals to the transmission means and/or receipt by the molecular and/or sub-atomic and/or impulses of energy assembling means until the object is manufactured.

The transmission means may include the Internet, a local-area network (LAN), a wide-area network (WAN), any other networks, mobile telephone communication, land-line telephone communication, radio communication, satellite communication, radio-waves, micro-waves, electromagnetic impulses and any other forms of transmission and/or communication.

The transmission of the signals may be real-time.

The transmission of the signals may be controlled from the input means and/or from the molecular and/or sub-atomic and/or impulses of energy assembling means.

The signals may include atomic and/or sub-atomic particles and/or impulses of energy.

The signals and/or atomic and/or sub-atomic particles and/or impulses of energy may be provided to the input means in electronic form.

5 The signals may be directly obtained by the input means from an input image and/or object and/or human and/or impulses of energy.

The system may be utilised for business means, such as entertainment, broadcasting, education, advertising, promotions, marketing, selling and/or transportation.

10 The method may be utilised for business means, such as entertainment, broadcasting, education, advertising, promotions, marketing, selling and/or transportation.

The transmission means, the input means and/or the molecular and/or subatomic and/or impulses of energy assembling means may be remotely 15 operated.

The transmission means, the input means and/or the molecular and/or subatomic and/or impulses of energy assembling means may be located far apart.

The remote operation may be via a telephone landline, the internet, a localarea network (LAN), a wide-area network (WAN), any other networks, mobile telephone communication, land-line telephone communication, radio communication, satellite communication, radio-waves, micro-waves, electromagnetic impulses and any other forms of transmission and/or communication. In the specification hereinafter, the term molecular manufacturing is defined as manufacturing using molecular machinery, giving molecule-by-molecule control of products and by-products via positional chemical synthesis.

DESCRIPTION OF AN EXAMPLE

5 The invention will now be described by way of an example.

The assembling system in accordance with the invention includes

- (a) a transmission means, which is the internet in the present embodiment example,
- (b) input means, in this example internet data/signal provider, and
- (c) molecular assembling means located at a remote position from the input means.

In operation, a user located at the molecular assembling means remotely activates the input means which then transmits predetermined signals/data across the transmission means to the output means. An object manufactured by molecular manufacturing and associated with the transmitted signals/data is then manufactured at the remote position from the input means.

The input means may include molecular disassembling means adapted to take apart structures a few at a time, recording structural information at each step.

By means of the assembling means in accordance with the invention, objects may be disassembling, analysed and molecular data of the object may be transmitted over great distances and a replica and/or original of the object may take place.

Date: 17 March 2003

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